INSTALL IT. TRUST IT.

HT/ArmaFlex

HT/ArmaFlex is a flexible elastomeric insulation material that is specially purposed for high temperature applications.

// Professional solution for high temperature
   applications up to +150 °C
// UL approved
// System approach with fit-for-purpose ArmaFlex HT625
   Adhesive

www.armacell.eu
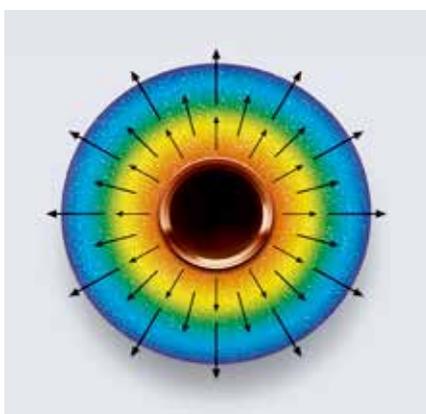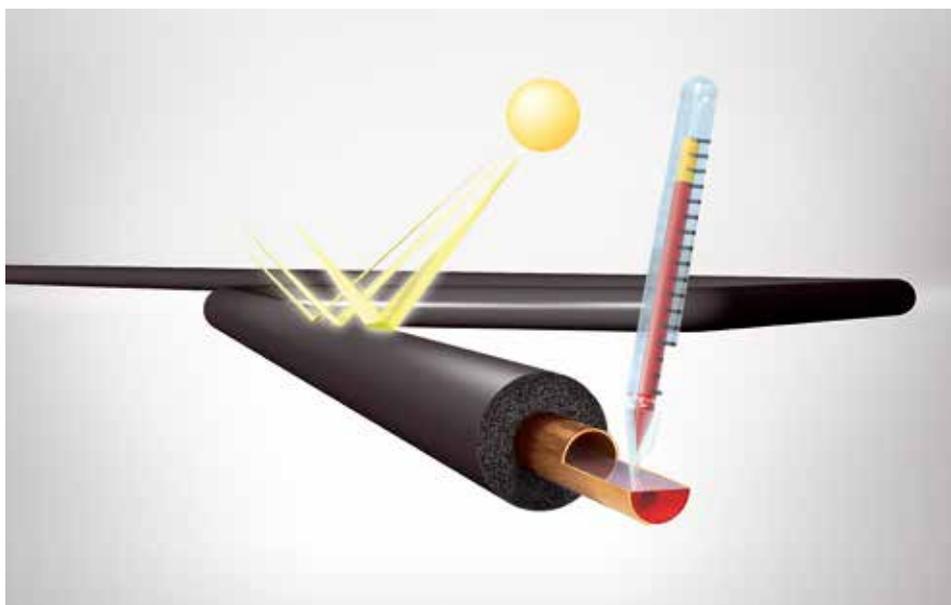
armacell®
ArmaFlex®

HT/ArmaFlex

THE EXPERT FOR HIGH TEMPERATURE

HT/ArmaFlex® is a flexible elastomer insulation material with exceptional resistance to UV radiation and high temperatures. Its closed cell structure and low thermal conductivity keep water vapour from diffusing in and reduce energy losses, protecting and optimising the efficiency and life time expectancy of the installation. While remaining flexible at application temperatures of up to 150°C, HT/ArmaFlex® is dust and fibre free and easy to install without special tools. The product does not need additional jacketing, does not degrade in sunlight and withstands incidental oil contact.

Thanks to the thermal properties of the insulation, the heat flow from pipelines insulated with HT/ArmaFlex® is kept at its utmost minimum. The evenly spread, homogenous and longterm stable closed cell structure prevents heat flow on the way of convection, ensuring very low thermal conductivity of the insulation material. This to keep the outer surface temperature at a low level and prevents unnecessary heat losses. Because of the flexibility of HT/ArmaFlex®, the huge temperature gradient of the thickness of insulation does not result in any internal stress.

Brief description	HT/ArmaFlex is a highly flexible, closed-cell insulation material with resistance to UV radiation.
Material type	Factory-made flexible elastomeric foam based on ethylene propylene diene methylene (EPDM), according to EN 14304.
Product colour range	Black
Special features	UV resistance testing regarding of these materials showed excellent results. When used on outdoor applications, the materials showed very good durability even under UV exposure. However, due to the unpredictable nature of outdoor conditions in the whole variety of thinkable installations, there might be occasional weathering influences on the consistence of the material, which cannot be tested in advance. Therefore, installations in extreme environments (regions of extreme weather conditions like high mountains etc.) cannot be recommended. In case of doubt, please contact our Customer Service.
Applications	Thermal insulation of pipes, vessels and ducts in solar collectors (including outdoors), motor vehicles, hot gas lines, steam lines and dual temperature lines.
Installation	Please refer to the ArmaFlex application manual and more information is available in Armacell's Technical Bulletin No. 71. Use ArmaFlex HT625 adhesive for a reliable and seamless installation.

Property	Value / Assessment			Standard / Test method
Temperature range				
Service temperature[1,2]	Range	Min. °C	Max. °C	EN 14706, EN 14707, EN 14304
	Full range	-50	150	
	Remarks	+85 °C for tapes		
Thermal conductivity				
Declared thermal conductivity	θm	40°C		EN ISO 13787, EN 12667, EN ISO 8497
	λd ≤ [W/(m·K)]	0,042		
	Range	Tubes		
	Formula	$\lambda = [36.92 + 0.125 \cdot \theta m + 0.0008 \cdot (\theta m-30)^2] / 1000$		
Declared thermal conductivity	θm	40°C		EN ISO 8497, EN ISO 13787, EN 12667
	λd ≤ [W/(m·K)]	0,045		
	Range	Sheets / Tapes		
	Formula	$\lambda = [39.92 + 0.125 \cdot \theta m + 0.0008 \cdot (\theta m-30)^2] / 1000$		
Fire Performance and Approvals				
Reaction to fire	D(L)-s3,d0 (tubes) D-s3,d0 (sheets, tape)			EN 13501-1, EN ISO 11925-2, EN 13823
UL standards				
UL 94 V-0	Pass			IEC 60695-11-10
Fire performance				
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames.			
Others	Class 1			BS 476 Part 7
Physical attributes				
Dimensions and tolerances	In accordance with EN 14304, table 1.			EN 822, EN 823, EN 13467
Weather and UV resistance				
UV resistance[3]	Very good			EN ISO 4892-2
Health and environment				
Volatile organic compounds (VOC) content	Fulfills all VOC requirements (French, Italian, Belgian, German AgBB, Blauer Engel and Eurofins Indoor Air Comfort GOLD).			ISO 16000 Parts 3, 6 & 9

Property	Value / Assessment	Standard / Test method
Environmental Product Declaration (EPD)	Type III Environmental Product Declaration (EPD): Declaration number "EPD-ARM-20200222-IBA1-EN", Institut Bauen und Umwelt e.V. (IBU)	
Green building assessment	Meets the sustainable construction requirements for LEED v4.1, BREEAM international, WELL v2 and DGNB.	
Additional features	SCCP, MCCP-free	

Other technical features

AGI designation code	Tubes: 36.12.05.09.02 Sheets: 36.07.05.09.02	
Shelf life[4]	Tape, self-adhesive: 1 year	
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C to 35°C).	

[1] For temperatures above +125 °C or below -50 °C, please contact our Customer Service Centre to request for the corresponding technical information.

[2] At high service temperatures, a certain hardening process may start on the inner surface of the material. Investigations have shown that these changes have no impact on the good physical and fire protection properties of the material, provided the material is installed in a correct way with all its joints properly sealed. For specific applications please consult our technical service.

[3] Extended exposure to certain conditions could result in aesthetic changes to insulation material. This includes examples such as minor discolouration, surface cracks or hardening of inner surface material due to extended exposure to high service line temperatures. These physical changes do not affect the technical performance of the insulation material, such as thermal conductivity and behaviour in case of a fire. For further information, please contact our Technical Service department.

[4] Shelf life (maximum storage time) is limited to ensure that only currently manufactured products are installed on projects. This limitation is restricted solely to storage of the product and does not affect the lifetime of product after it has been installed.

Tube – standard. 2m Length.

10 mm

Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	EAN	Primary content [metric]
10	11	14	HT-10X010	7612207121032	192 m
12	13	16	HT-10X012	7612207121056	172 m
15	16	19	HT-10X015	7612207121070	144 m
18	19	22	HT-10X018	7612207121087	130 m
22	23	26	HT-10X022	7612207121100	108 m
28	29	32	HT-10X028	7612207121131	82 m
35	36	39	HT-10X035	7612207121155	60 m
42	43	46	HT-10X042	7612207121162	50 m
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

13 mm

Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	EAN	Primary content [metric]
10	11	14	HT-13X010	7612207121261	140 m
12	13	16	HT-13X012	7612207121278	130 m
15	16	19	HT-13X015	7612207121285	112 m
18	19	22	HT-13X018	7612207121292	98 m
22	23	26	HT-13X022	7612207121322	84 m
28	29	32	HT-13X028	7612207121353	64 m
35	36	39	HT-13X035	7612207121377	50 m
42	43	46	HT-13X042	7612207121391	40 m
48	49	52	HT-13X048	7612207121414	32 m
54	55	58	HT-13X054	7612207121438	32 m
60	61	64	HT-13X060	7612207121452	28 m
76	77	80	HT-13X076	7612207121476	24 m
89	90	93	HT-13X089	7612207121490	18 m

Other information

Length tolerance	± 1,5 %

Tube – standard. 2m Length.

19 mm

Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	EAN	Primary content [metric]
12	13	16	HT-19X012	7612207121520	80 m
15	16	19	HT-19X015	7612207121537	64 m
18	19	22	HT-19X018	7612207121551	58 m
22	23	26	HT-19X022	7612207121575	50 m
28	29	32	HT-19X028	7612207121605	48 m
35	36	39	HT-19X035	7612207121612	32 m
42	43	46	HT-19X042	7612207121629	24 m
48	49	52	HT-19X048	7612207121636	22 m

25 mm

Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	EAN	Primary content [metric]
15	16	19	HT-25X015	7612207121735	40 m
18	19	22	HT-25X018	7612207121742	36 m
22	23	26	HT-25X022	7612207121759	36 m
28	29	32	HT-25X028	7612207121773	32 m
35	36	39	HT-25X035	7612207121780	24 m
42	43	46	HT-25X042	7612207121797	20 m
48	49	52	HT-25X048	7612207121803	16 m
54	55	58	HT-25X054	7612207121810	16 m

Tube – standard. 2m Length.

19 mm						25 mm					
Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Item	EAN	Primary content [metric]
54	55	58	HT-19X054	7612207121643	18 m	60	61	64	HT-25X060	7612207121834	16 m
60	61	64	HT-19X060	7612207121667	16 m	76	77	80	HT-25X076	7612207121841	12 m
64	65	68	HT-19X064	7612207469158	16 m	89	90	93	HT-25X089	7612207121858	12 m
76	77	80	HT-19X076	7612207121681	18 m	-	-	-	-	-	-
89	90	93	HT-19X089	7612207121698	16 m	-	-	-	-	-	-

Other information

Length tolerance	± 1,5 %

Roll - standard

Item	Thickness [mm]	Width (m)	Length [m]	EAN	Primary content [metric]
HT-10-99/E	10	1	10	7612207121247	10 m²
HT-13-99/E	13	1	8	7612207121506	8 m²
HT-19-99/E	19	1	6	7612207121704	6 m²
HT-25-99/E	25	1	4	7612207121865	4 m²
HT-32-99/E	32	1	3	7612207121872	3 m²

Other information

Length tolerance	+ 5 % - 1,5 %

Coil

13 mm					19 mm				
Pipe Ø [mm]	Item	Length [m]	EAN	Primary content [metric]	Pipe Ø [mm]	Item	Length [m]	EAN	Primary content [metric]
15	HT-13X015/E	26	7612207235753	26 m	15	HT-19X015/E	16	7612207235784	16 m
18	HT-13X018/E	22	7612207235760	22 m	18	HT-19X018/E	14	7612207235791	14 m
22	HT-13X022/E	18	7612207235777	18 m	22	HT-19X022/E	12	7612207235807	12 m

Other information

Length tolerance	± 1,5 %

Tape – insulation

Item	Thickness [mm]	Width [mm]	Length [m]	EAN	Primary content [pieces]
HT-TAPE	3	50	15	7612207120875	12 roll

Adhesives and Cleaners

Item	Description	Primary content [pieces]
ADH-HT625/0,25	ArmaFlex HT625 one-component adhesive. Available as 0.25 litre cans (with brush).	40 tin
ADH-HT625/0,5	ArmaFlex HT625 one-component adhesive. Available as 0.5 litre cans.	12 tin

Adhesives and Cleaners

Item	Description	Primary content [pieces]
ADH-HT625/1,0	ArmaFlex HT625 one-component adhesive. Available as 1.0 litre cans.	12 tin
CLEANER/1,0	Special cleaner for use with ArmaFlex adhesives	4 tin
SF-CLEANER/1,0	Solvent-free cleaner for use with ArmaFlex	6 tin

OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects. From planning to delivery, our 360° service supports you throughout the entire process.

SERVICE AND TECHNICAL INFORMATION AVAILABLE 24/7

At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about the Armacell services you benefit from is available 24/7 from Armacell.com website as well as from our planning tools (BIM, specification documents, ArmaWin, as well as our sustainable building policy)

DEDICATED LOCAL CONTACTS

We aim to create open lines of communication with our customers. From on-site trainings and webinars by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.

DIGITAL INFORMATION FLOWS

From order to delivery, we also provide you with digital information flows such as EDI and other well-known data formats that are widely used in the construction sector worldwide.

LOGISTICS

**OUR STANDARD LOGISTICS
SERVICES INCLUDE**

// Material ordered will be shipped from our facilities
within 48 hours after order confirmation

// Full truck loads and full pallets
(not mixed – 1 SKU per pallet)

// List prices in this document
are based on Ex Works

// Container loading with standard goods

// Customs clearance (including documentation)
for standard deliveries outside EU

// Dangerous goods process for road freight

WE GO BEYOND STANDARD SERVICES AND ALSO PROPOSE YOU ADDITIONAL SERVICES*

OPIMISED PACKAGING

- Edge protection
- Strapping
- Doubled stretching
- Reinforced cardboard
  with extra layer
- Additional warning tape

LABELLING

- Extra label for
  transport instructions

EXTRA DELIVERY SERVICES

- Just in time delivery
- Delivery with lifting platform for partial or complete load
- Express and direct shipments
- Booking a delivery time slot via your EDP system
- Forklift truck for unloading at construction site
- Air and sea freight deliveries
- Dangerous goods shipment process for air and sea freight

To mitigate cost increases and reduce waste
generation, we also propose a pallet return
service* by which pallets can be handed at
Armacell collection points.

* Please contact your local Customer Service Centre to see which of these services apply to your country.

ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

armacell®
ArmaFlex®

For more information, please visit:
www.armacell.com